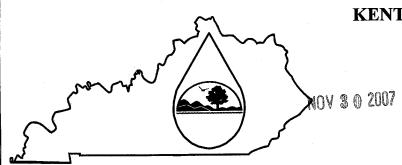
AI 1959



### KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

### PERMIT APPLICATION

~								
This is an application to: (check one)		A complete application	on cons	ists of th	is form	and one	of the	
Apply for a new permit.		following:	C E	E	. Chart	Earm C		
Apply for reissuance of expiring per	mit.	Form A, Form B, For	rm C, F	orm F, o	r Short	roini C		
Apply for a construction permit.		For additional infor	rmation	contact				
Modify an existing permit.	KPDES Branch (502			••				
Give reason for modification under	Itelli II.A.	AGENCY 2	2) 304-	7				
I. FACILITY LOCATION AND CONT		USE C	<u> </u>	) 4	2	2	2	6
A. Name of business, municipality, company, etc. re Louisville & Jefferson County Metropolitan Sewer I	questing permit District		N = 111		Rich in week			<del></del>
B. Facility Name and Location		C. Facility Owner/	Mailing	g Addres	S		1,000	
Facility Location Name:		Owner Name:						
Lake Forest STP (Beckley Station)		Metropolitan Sewer Dis	istrict					
Facility Location Address (i.e. street, road, etc.):		Mailing Street:						
14000 Beckley Trace		700 West Liberty Street	et					
Facility Location City, State, Zip Code:		Mailing City, State, Zip						
Present Ventualis 40245		Louisville, Kentucky 40	10203					
Prospect, Kentucky 40245		Telephone Number:	.0205			, ,		
· ·		(502) 564-6000	+ x 187 % 1.m.		V W 2	27.4	a and a second	- 40.4
II. FACILITY DESCRIPTION			n i i sani katalah kalandari kalandari kalandari kalandari kalandari kalandari kalandari kalandari kalandari k Kalandari kalandari k				entrappies est	
A. Provide a brief description of activities Publically owned treatment Works	es, products, etc. Resident	ar & Commissionar Wa						
B. Standard Industrial Classification (SIC	Code and Description		والمراجع المعارض	1 10 10 1	And their of	eredji u tope	entition in	elegano, co
Principal SIC Code &	) Code and Description							
Description: 6552; I	Land Subdivision & Land I	Development						
	Sewage Treatment Fac.							
							- Artista	
III. FACILITY LOCATION			Mark M		TYANIO			
A. Attach a U.S. Geological Survey 7 1/2 1	minute quadrangle map for	the site. (See instruct	tions)					
B. County where facility is located:		City where facility is located (if applicable):						
Jefferson		Louisville						
C. Body of water receiving discharge: Unnamed tributary at mp 0.13 to unname	d tributarió et ma 0.20 to C	henoweth Run at mile	e noint	1.70				
D. Facility Site Latitude (degrees, minute	se seconds):	Facility Site Longitu	ude (des	rees mi	nutes s	econds)	•	
38° 15' 00"	s, seconds).	85°29' 50"	aac (ace	51005, 1111	naves, s	,		
30 13 00		00 20 00						
E. Method used to obtain latitude & long	itude (see instructions):	USGS Topographic	Мар					
F. Facility Dun and Bradstreet Number (1								

IV. OWNER/OPERATOR INFORMATI	ON		
A. Type of Ownership:		Both Public and Privat	te Owned Federally owned
Publicly Owned Privately Owned B. Operator Contact Information (See instru		J Dom't dome and i iiva	
Name of Treatment Plant Operator:	The second secon	Telephone Number:	
John Kessel		(502) 241-9310	
Operator Mailing Address (Street): 5512 Hitt Lane			
Operator Mailing Address (City, State, Zip Code): Louisville, Kentucky 40241			
Is the operator also the owner?			yes, list certification class and number below.
Yes No 🛛		Yes No No	
Certification Class:		Certification Number: 15248	
III		13270	
			and the second s
V. EXISTING ENVIRONMENTAL PER		Ogagonia dan sa di masteri ya di masteri da	The state of Company Popular
Current NPDES Number:	Issue Date of Current Peri	nit:	Expiration Date of Current Permit:
KY0042226	August 1, 2003		March 31, 2008
Number of Times Permit Reissued:	Date of Original Permit Is	suance:	Sludge Disposal Permit Number:
·			
Kentucky DOW Operational Permit #:	Kentucky DSMRE Permit	Number(s):	
C. Which of the following additional environments	onmental permit/registra	ation categories will also	
CATEGORY	EXISTING PE	RMIT WITH NO.	PERMIT NEEDED WITH PLANNED APPLICATION DATE
Air Emission Source	N/A		N/A
Solid or Special Waste	N/A		N/A
Hazardous Waste - Registration or Permit	N/A		N/A
Tiazardous waste - Registration of Territ	1 - 1/4 -		
	and the second s		
VI. DISCHARGE MONITORING REP	ORTS (DMRs)	C III	along the data (or defined by the VDDES
KPDES permit holders are required to su	ibmit DMRs to the Di	vision of Water on a r	regular schedule (as defined by the KPDES
permit). The information in this section ser for submitting DMR forms to the Division	ves to specifically iden	my me department, om	ce or individual you designate as responsible
tot anomimis Divik toring to the Division	OI WALLET		
A. Name of department, office or official s	ubmitting DMRs:	Dennis Thomasson	
		ldmaga ia different from	mailing address in Section I )
B. Address where DMR forms are to be se	nt. (Complete only if ac	idress is different from I	manning address in Section 1.)
DMR Mailing Name:	Cedar Creek Wastewa	nter Plant	
ACTUAL TANAMAN I TOMAN			
DMR Mailing Street:	8405 Cedar Creek Rd		
		40011	
DMR Mailing City, State, Zip Code:	Louisville, Kentucky	40211	
DMR Official Telephone Number:	(502) 239-7695		

_		-				TATA	
1	/TT. A	PPL	.I( .A	110	NHII	JING	REE

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. Descriptions of the base fee amounts are given in the "General Instructions."

Facility Fee Category:	Filing Fee Enclosed:
Public Owned Treatment Works (No Fee Due)	N/A

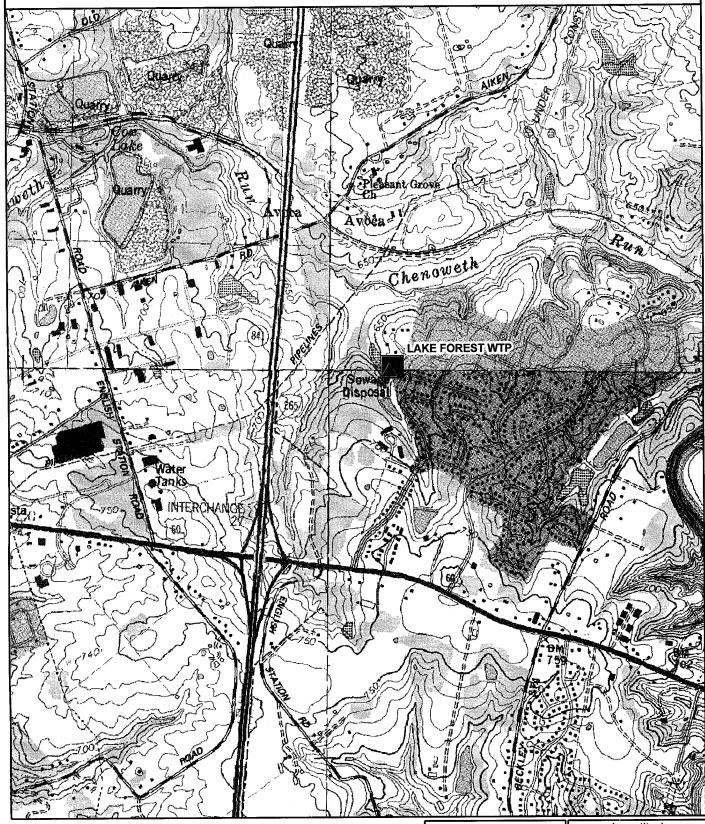
### VIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
Herbert J. Schardein, Jr Executive Director	(502) 540-6000
SIGNATURE	DATE:
Heyet Schanles	11/27/07
7 7 7 7 7 7	

### 403 - Lake Forest Capacity 0.470 MGD





Discharge Point
Sewer Treatment Plant

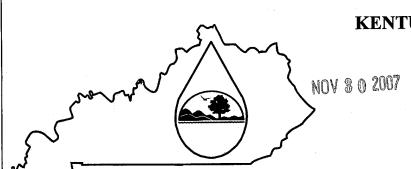
USGS Fisherville (Ky) Quadrangle Projection is UTM Zone 16 NAD 83 Datum

	atitude		Longtitude			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	
38	15	00	85	29	50	





### **KPDES FORM SC**



### KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

### **PERMIT APPLICATION**

A complete application consists of this form and Form 1. For additional information, contact: KPDES Branch, (502) 564-3410.

NAME OF FACIL	ITY: Lake F	orest STP (Be	ckley Station)				
			College Co. S.	<b>A</b>	GENCY	00	4 2226
I. FACILITY DIS	CHARGE FI	REQUENCY			USE	0	1 0100 00
A. Do discharge(s) (Complete Item			No 🗌				
B. How many days	per week?	7					
II. A. Give the basi Residential Connec Commercial Conne Industrial Connecti	ctions: 1464 ections: 18	r sizing of the	wastewater fa	cility (see inst	ructions):		
B. If new discharge	er, indicate ant	ticipated disch	arge date:				· · · · · · · · · · · · · · · · · · ·
C. Indicate the desi	ign capacity of	f the treatment	system:	0.470	MGD		
III. Outfall Locat	tion (see instr						
Outfall	and the second of the second	LATITUDE			LONGITUDE		DECEMBLE WATER (***
(list)	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	RECEIVING WATER (name)
001	38	15	00	85	29	50	Unnamed tributary 0.13 to an unnamed tributary at mp 0.20 to Chenoweth Run at mp 1.70
	· .						Y
Method used to ob		ongitude	1	LISGS topos	1		

	BUTING FLOW	ddition to page 1 and 2.  TREATMENT			
Operation (list)	Avg/Design Flow (include units)	List treatment components	List Codes from Table SC-1		
	0.396/0.470	Grinding	1-L		
	0.396/0.470	Activated Sludge	3-A		
	0.396/0.470	Sedimentation	1-U		
	0.396/0.470	Aerated Polishing pond	3-J		
	0.396/0.470 0.396/0.470	Disinfection Dechlorination	2-F 2-E		
	0.396/0.470	Post Aeration	3-L		
	0.396/0.470 0.396/0.470	Odor Control Aerobic Digestion	2-M 5-A		
	0.396/0.470	Discharge	4-A		
		Operation (list)  Flow (include units)  0.396/0.470  0.396/0.470  0.396/0.470  0.396/0.470  0.396/0.470  0.396/0.470  0.396/0.470  0.396/0.470  0.396/0.470  0.396/0.470	Operation (list)		

V.	Check (	he type(s) of wa	stewater discharge	i.						
		Domestic (60%	or more sanitary sew	rage)		Oil field waste				
		Noncontact cool	ling water			Other (list):				
VI.	Does a	ll water used at	facility (except for	human co	onsumpti	on) flow to a trea	tment plan	t? 🗌	Yes	lo
VII	. Discha	arge to other tha	nn surface waters. C	heck app	oropriate	location:				
	- 🗆	Publicly-owned	lake or impoundmen	nt	Name of	lake:				
		Publicly-owned	treatment works (PC	TW).	Name of	POTW:				
		Land application	n of Effluent							
		Surface injection	on (Check term and i	dentify on	ı map) 🗀	lateral field; 🗌 s	inkhole; 🔲	sinkin	g stream; 🔲 d	leep well
		Closed Circuit	(Check appropriate t	erm)	Holding	tank;   Mechanic	cal evaporat	ion; 🗀	] Waste impou	indment
VII	I. Chec	k the metals pre	sent in the discharg	e if applic	cable and	l indicate the qua	ntity discha	arged ]	per year. (Ind	licate units).
		Antimony	N/A		Copper	N/A			Silver	N/A
		Arsenic	N/A		Lead	N/A			Thallium	N/A
		Beryllium	N/A		Mercur	y N/A			Zinc	N/A
		Cadmium	N/A		Nickel	N/A				
		Chromium	N/A		Seleniu	m N/A				

A. Number of bypass points: 0	(If b	bypass points are indicated, information below must be completed each bypass.)			
Check when bypass occurs:	☐ We	t Weather	Dry Weather		
Give the number of bypass incidents		per year	per year		
Give average duration of bypass		hours	hours		
Give average volume per incident		1,000 gallons	1,000 gallons		
Give reason why bypass occurs:					
B. Number of Overflow Points: 0 (If disch	arge is from an overflo	w point, the information by	below must be completed.)		
Check when overflow occurs:	☐ Wet	t Weather	Dry Weather		
Give the number of overflow incidents:		per year	per year		
Give average duration of overflow:		hours	hours		
Give average volume per incident:		1,000 gallons	1,000 gallons		
C. Number of seasonal discharge points	0				
Give the number of times discharge occu	rs per year				
Give the average volume per discharge o	ccurrence	(1,000 gallons)			
Give the average duration of each discha	rge	(days)			
List month(s) when the discharge occurs					
X. AREA SERVED (see instructions)  NAME	er en	ACTUAL	L POPULATION SERVED		
Residential Connections		1464			
Commercial Connections		18			
Industrial Connections		0			
TOTAL POP	ULATION SERVED	1482 Connections			

### (PLEASE COMPLETE THIS PAGE IF OTHER THAN DOMESTIC WASTEWATER IS DISCHARGED)

Additive	Composition	Concentration (mg/l)

A. Indicate results of analysis for		ANC DAILWAYATTE	NUMBER OF SAMPLES
POLLUTANT/PARAMETER	MAX DAILY VALUE	AVG DAILY VALUE	NUMBER OF SAMIFLES
BOD <sub>5</sub> (CBOD5)	24 mg/l	5.34 mg/l	130
TOTAL SUSPENDED SOLIDS	31 mg/l	8.3 mg/l	131
FECAL COLIFORM	6050 #/100ml	132 #/100ml	127
TOTAL RESIDUAL CHLORINE	<0.010		130
OIL AND GREASE	NA	NA	
CHEMICAL OXYGEN DEMAND	NA	NA	
TOTAL ORGANIC CARBON	NA	NA	
AMMONIA	37.5	7.51	245
DISCHARGE FLOW	1.295 MGD	0.396 MGD	Continuous
РН			
TEMPERATURE (WINTER)	taken with pH not recorded	not required on DMRs	
TEMPERATURE (SUMMER)	taken with pH not recorded	not required on DMRs	

B. Frequency and duration of flow:	

### XIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
Herbert J. Schardein, Jr. Executive Director	(502) 540-6000
SIGNATURE	DATE
Neht Johande	11/27/87
7.00	

### **KPDES Permit Application Attachments**

### 403 - Lake Forest Capacity 0.470 MGD





▲ Discharge Point
■ Sewer Treatment Plant

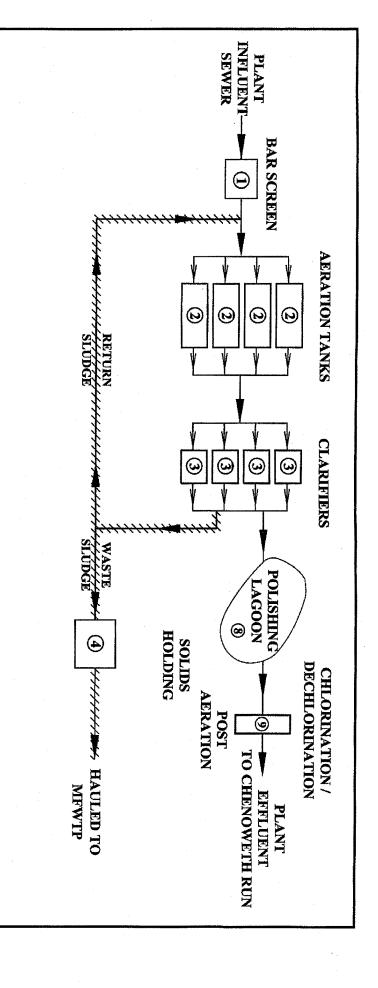
USGS Fisherville (Ky) Quadrangle Projection is UTM Zone 16 NAD 83 Datum

Latitude		Longtitude			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
38	15	00	85	29	50

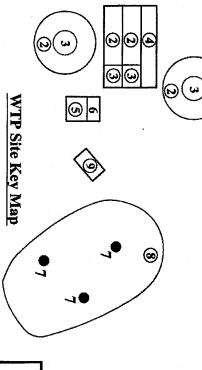








## PROCESS FLOW DIAGRAM



Θ

### LEGEND

Wastewater Flow

High Biosolids Flow

- 1. Manual Bar Screen
- 2. Aeration Tanks
- 3. Clarifiers

4. Solids Holding Tanks

- Blower Building
- 6. Chlorine Room
- 7. Surface Aerators
- 8. Aerated Polishing Lagoon
  9. Post Aeration/Chlorine Contact

and Dechlorination

### PROCESS FLOW PLAN

KPDES #: KY 0042226

Louisville and Jefferson County
Metropolitan Sewer District
700 West Liberty Street
Louisville, Kentucky 40203-1913

Scale = None Drawn By: JDL

Drawn By: JDL Date: 10/30/06

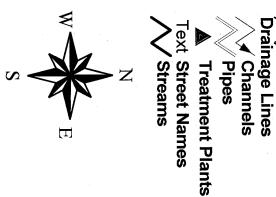
LAKEFOREST wtp flow.dwg

# KY0042226 Lake Forest WTP



Sewernd SewerINT Sewer

Sample Locations



0.05



ERNIE FLETCHER **GOVERNOR** 

### **ENVIRONMENTAL AND PUBLIC PROTECTION CABINET**

TERESA J. HILL **SECRETARY** 

DEPARTMENT FOR ENVIRONMENTAL PROTECTION DIVISION OF WATER 14 REILLY ROAD

FRANKFORT, KENTUCKY 40601 www.kentucky.gov

September 6, 2007

OCT 3 0 2007 SECOND NOTICE

Mr. Daymond Talley Lousiville/Jefferson County MSD 700 West Liberty Street Louisville, Kentucky 40203

> RE: KPDES No. KY0042226 Lake Forest Wastwater Treatment Plant Jefferson County, Kentucky

Dear Mr. Talley:

Our records indicate that your Kentucky Pollutant Discharge Elimination System (KPDES) permit is due to expire on March 31, 2008. According to the KPDES Regulation 401 KAR 5:060, "any person with a currently effective permit shall submit a new application at least 180 days before the expiration of the existing permit..." The due date for your permit renewal application is November 10, 2007.

Please complete the enclosed application forms and return to the KPDES Branch, Division of Water, at the above address by the indicated due date. Applications received after the due date are in violation of 401 KAR 5:060. Section 1, which could result in enforcement action being taken.

If you have any questions regarding the completion of these forms, please contact me at (502) 564-8158, extension 470, or Ann Workman at extension 528.

Sincerely,

Ann S Worleman

for Vickie L. Prather, Acting Supervisor Inventory and Data Management Section **KPDES Branch** Division of Water

VLP:ASW:asw

**Enclosures** 

C: Louisville Regional Office Division of Water Files





Louisville and Jefferson County Metropolitan Sewer District 700 West Liberty Street Louisville Kentucky 40203-1911 502-540-6000 www.msdlouky.org

November 29, 2007

NOV 3 0 2007

Vickie L. Prather, Acting Supervisor Division of Water Inventory and Data Management Section KPDES Branch 14 Reilly Road Frankfort, Kentucky 40601

Subject: Renewal Application KPDES No. KY0042226

Lake Forest Wastewater Treatment Plant

Dear Ms. Prather:

Enclosed are the completed applications (Form 1 and Form SC) for the renewal of Lake Forest Wastewater Treatment Plant KPDES permit KY0042226.

If you have any questions please contact Daymond Talley at (502) 540-6980 or at talley@msdlouky.org.

Sincerely,

Herbert J. Schardein, J

Executive Director

HJS/dmt

cc: D. Guthrie

A. Akridge

D. Thomasson

D. Talley

J. Kessel

M. Jenkins

R. Shaw (eB)



STEVEN L. BESHEAR

### ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

ROBERT D. VANCE SECRETARY

GOVERNOR

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601
www.kentucky.gov

December 18, 2007

Daymond Talley Louisville and Jefferson County Metropolitan Sewer District 700 West Liberty Street Louisville, KY 40203

> Re: KPDES Application Complete KPDES No.: KY0042226 Lake Forest MSD AI ID: 1959 Activity ID: APE20070002 Jefferson County, Kentucky

Dear Mr Talley,

Your revised Kentucky Pollutant Discharge Elimination System (KPDES) permit application for the above-referenced facility was received by the Division of Water on November 30, 2007. A completeness review of your permit application has been conducted. Please be aware that you may be asked to provide additional information to clarify, modify, or supplement your application material. In accordance with 401 KAR 5:075, Section 1(7) you are being provided written notification that your application has been deemed complete as of the date of this letter.

If you have any questions concerning this matter, please call me at (502) 564-8158, extension 590.

Sincerely,

Sara Beard

Environmental Engineer Assistant III KPDES Branch

KPDES Branch Division of Water

SJB

Enclosures

Louisville Regional Office Division of Water Files

